





Owner's Guide and Maintenance Log

HydraMaster 11015 47th Avenue West Mukilteo, Washington 98275

MAN-46606 Rev. A, January 2017 (P/N 000-182-900D)

No part of this manual may be reproduced or used in any form or by any means (i.e. graphic, electronic, photocopying or electronic retrieval systems) without the express written permission of HydraMaster. Specifications and information in this document are subject to change without prior notice. All rights reserved. © 2017 HydraMaster





Dear CDS xDrive Owner,

Thank you for selecting HydraMaster carpet cleaning equipment. We take pride in the innovative design and quality of our machines, and want to congratulate you on your purchase. We look forward to a long relationship between you and HydraMaster.

In this package you will find a printed Owner's Guide and Maintenance Logs with safety information, and a Truckmount Document Package with return envelope. Important: The Truckmount Installation Documentation and Warranty Registration must be completed by you and the distributor and returned to HydraMaster to activate your warranty and receive your free HydraMaster jacket. Your warranty starts on the date of installation. Please ensure the form is filled out completely and returned to us in the preaddressed envelope enclosed with this documentation.

Whether using a digital version or a printed copy, it is extremely important that you read the entire manual. The information contained in this manual is essential for safe operation and machine reliability.

As a HydraMaster owner you will periodically receive updates to this manual. Product Support Bulletins and manual supplements will be sent to you to keep you advised of changes or updates to your machine, it is important that we have your current contact information. You will find important contact information below, to help you with anything you might require.

Thank you again for choosing HydraMaster. We will continue, as we have for the last 4 decades to do everything possible to ensure that you remain a proud and satisfied HydraMaster owner.

Sincerely,

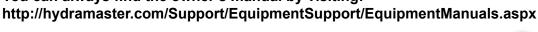
HydraMaster

Important contact information for your reference:

Technical Parts and Support **Customer Service** 800.426.1301 800.426.8972 800.426.4225 fax 425.771.7156

techsupport@hydramaster.com csorders@hydramaster.com

You can always find the owner's manual by visiting:











Introduction

This Owner's Guide provides you with important Contact Information, Warnings and Precautions, Machine Specifications, Operating Instructions and Maintenance Logs. In the back inside cover of this guide you will also find a CD that contains the digital Owner's Manual.

HOW TO USE THESE RESOURCES

The Owner's Guide is to be used for quick reference only and is not intended to be a comprehensive source of information. Refer to the Owner's Manual when more detailed information is needed.

The Machine Maintenance Log is located in the Owner's Guide. It is wise to keep this Guide in a visible location near the truckmount so that the log stays up to date. Please note that records of maintenance must be kept and copies may be required to be furnished to HydraMaster before any warranty is honored.

The digital Owner's Manual contains information on everything from cleaning and chemicals to truckmount operation and maintenance. It also contains detailed machine parts lists as well as troubleshooting guides. You should become familiar with the material in the Owner's Manual as it contains information that is essential for safe operation and increased truckmount reliability.

This Owner's Guide contains the following sections:

- Machine Specifications
- Responsibilities
- Local Water Precautions
- Waste Water Disposal Advisory
- Operating Instructions
- Maintenance Logs





CONTACT INFORMATION

If you have any questions regarding the operation, maintenance or repair of this machine, please contact your local distributor.

To find a local distributor, please visit our website at http://hydramaster.com/HowToBuy/DealerLocator.aspx

If your question cannot be resolved by your distributor or by the information within this manual, you may contact HydraMaster direct using the following phone numbers.

HOURS	TELEPHONE NUMBERS	E-MAIL ADDRESSES
Monday-Friday	Technical Support (800) 426-1301 FAX: (800) 426-4225	Technical Support techsupport@hydramaster.com
7:00 a.m. to 5:00 p.m. Pacific Time	Customer Service/Parts 800) 426-1301 FAX: (800) 426-4225	Customer Service/Parts parts@hydramaster.com

When calling your distributor, be sure to reference the serial number and date of purchase.

FOR YOUR REFERENCE:		
Serial No.		
Date of Purchase:		
Purchased From (D	istributor):	



WARNINGS, CAUTIONS AND NOTICES

AWARNING

HydraMaster uses this **WARNING** symbol throughout the manual to warn of possible injury or death.

CAUTION

This **CAUTION** symbol is used to warn of possible equipment damage.

NOTICE

This **NOTICE** symbol indicates that federal or state regulatory laws may apply, and also emphasizes supplemental information.



AWARNING

HOT SURFACES: During the operation of this equipment, many surfaces on the machine will become very hot. When near the van for any reason care must be taken not to touch any hot surface, such as the engine or the exhaust.

AWARNING

HEARING PROTECTION: The Occupational Safety and Health Administration (OSHA) recommends the use of hearing protection when a technician is exposed to an average of 85 decibels (this is an average of exposure over an 8 hour period). This equipment can produce 85 decibels to a distance of 10 feet. Please check with your local state agencies to see if OSHA standards apply to your application.

AWARNING

NO SMOKING: It is unsafe to smoke in or around the vehicle. Do not allow any open flames in or around the vehicle.

AWARNING

CARBON MONOXIDE: This unit generates toxic fumes. Position the vehicle so that the fumes will be directed away from the job site. Do not park where exhaust fumes can enter a building through open doors, windows, air conditioning units or kitchen fans.

AWARNING

TOXIC FUMES: Do not occupy the vehicle when the cleaning equipment is operating.

Toxic fumes may accumulate inside a stationary vehicle.

AWARNING

ENGINE EXHAUST: The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

AWARNING

MOVING PARTS: Never touch any part of the machine that is in motion. Severe bodily injury may result.

AWARNING

Do not attempt to service battery pack. Severe bodily injury may result.



CAUTION

The use of some chemicals through your machine can seriously damage the internal plumbing, high-pressure pump, chemical pump and heat exchanger. These harmful chemicals include concentrated acid solvents (including d-Limonene), and some paint, oil and grease removers with a high concentration of solvents.

CAUTION

THROUGH-FLOOR DRILLING: Be cautious when drilling holes through the van floor.

Many vans have critical components mounted directly below the van floor that could be damaged by a misplaced drill bit.

CAUTION

LEVEL OPERATION: During operation, the vehicle must be parked on level ground not to exceed + or - 10 degrees. Failure to ensure proper leveling may prevent proper internal lubrication of engine, vacuum and/or high pressure components.

CAUTION

ACID RINSE AGENTS: Some acid rinse products can cause damage to internal machine components. Failure to take appropriate measures to prevent acidic corrosion can result in system failure and loss of warranty on affected parts

CAUTION

HARD WATER PROTECTION: Failure to take appropriate measures to prevent scale build up can result in system failure and loss of warranty on affected parts. Test the water in your immediate and surrounding areas with hard water test strips. Assume all water obtained from wells is hard. If you are operating in a hard water area at 3.0 grains or more per gallon, use a water softening system.

CAUTION

FREEZE PROTECTION: Failure to take appropriate measures to prevent equipment damage due to freezing can result in system failure and loss of warranty on affected parts. Placing an electric heater in the vehicle or parking the vehicle indoors will help ensure against freezing, but should not be the primary method of freeze protection.



CAUTION

Do not attempt to open the controller as there are no serviceable components. Opening the controller will invalidate the warranty.

CAUTION

Do not mechanically modify the controller in any way as unexpected damage may occur.

Mechanically modifying the controller will invalidate the warranty.

CAUTION

Do not use any other form of fasteners other than those supplied with the controller without contacting HydraMaster for advice. Use of inappropriate fasteners or torques could damage the controller.



MACHINE SPECIFICATIONS

Eromo and		0.75"H x 68.25"L
Frame and Recovery Tank	20.23 W X 4	U./O FIX 00.20 L
Total Weight	775 lbs	
Construction	Marine alum	inum with epoxy finish
	Chassis galv	vanized steel
Power Pack	Vacuum Blower	Gardner Denver 408 TriFlow
	Water Pump	General Pump
Drive System	3 Phase PM	AC Generator
	3 Phase Mo	tor
	(2) PMAC M	lotor Controllers
	48 V battery	pack
Chemical System	Last-step cl	nemical injection, meter controlled
Heating System	3- Zone	
Instruments		
	Electronic ta	chometer, 0-3,500 rpm
	Water temper	erature gauge, 0-320 degrees F
	Vacuum gau	ıge, 0-30" hg
	Hour meter,	machine run-time
	Electronic ci	rcuit protection breaker, resettable
	Machine sta	tus indicator lamps
	Chemical flo	wmeter, 0-10 gph
	Solution pre	ssure gauge, liquid filled, 0-1,500 psi
	Water press	ure adjustment
	Blower lubric	cation port
	High pressu	re solution outlets, quick-disconnects
	Fresh water	inlet fitting, quick-disconnect
	Water box d	rain valve
	Chemical co	ontrols
Recovery Tank	100 gallon a	luminum
Cleaning Tool/ Wand	One HydraM	laster Evolution wand



High Pressure Hose	1/4" high temperature, lined, vinyl covered
	Hose rated to 2,200 psi, 250 degrees F
Other Standard Equipment	Runtime hour meter
	Chemical flow meter (0-10 GPM)
	Chemical flow control valve
	Vacuum gauge (0"-30" Hg)
	Solution pressure gauge (0-1,500 PSI)
	Solution pressure adjustment
	Pre-wired pump-in switch
	Pre-wired APO Switch/APO outlet
	Fresh water inlet
	Water system drain valve
	Blower tachometer (0-3,500 RPM)
	Electronic throttle control
	Electrical circuit protection (resettable)
	Solution pump switch
	4 speed control
	CDS Power Transfer package
	Top-mounted gauge cluster & control console
	Dual wand solution connections
	Dual wand vacuum connections
	Freeze guard system
	Safety wheel chocks
	10 ft x 1 1/2" whip line
	10 ft x 1 1/2" drain line
	150 feet High Performance Solution/Vacuum Hoses
	Garden Hose
	Chemical jug holder
	2.5 gallon chemical jug
	Operation & maintenance manual
	Embroidered HydraMaster jacket
	Van decal
	3 Year Warranty





RESPONSIBILITIES

Purchaser's Responsibility

If you are the purchaser, it is the your responsibility to read the Owner's Manual and to familiarize yourself with the information contained herein, paying special attention to all Warnings and Cautions.

Sales Representative's Responsibility

Acceptance of Shipment

- 1. If the unit shows any outward signs of damage, do not sign the delivery receipt until you have closely inspected the unit and noted any damage on the delivery receipt.
- 2. The sales representative from whom you purchased your unit is responsible for supervising the receipt of vehicle and communication with the transport company. The sales representative is also responsible for training you in its operation, maintenance and precautions.

Installation Verification

- The correct installation of the unit and recovery tank in your vehicle and the securing of them with bolts and tie down washers.
- Checking the pump, vacuum blower and engine oil levels prior to starting the unit.
- Starting the unit to check the drive system and see that all other systems function normally.
- Checking all hoses, tools/wands and accessories for correct operation.

Training

- A thorough review of the Owner's Manual with the purchaser.
- Instruction in and familiarization with:
 - 1. How to correctly start up and shut down the unit
 - 2. How to correctly clean with the unit
 - 3. Where and how often to check and change component oil levels
 - 4. How the unit's systems work, how to troubleshoot the unit
 - 5. How to do basic repairs
 - 6. Safety precautions and their importance
 - 7. How to avoid freezing damage
 - 8. How to avoid hard water damage
- A thorough review of the unit warranty and warranty procedures.
- A thorough review of hard water precautions and warnings.
- · How to determine hard water areas.



LOCAL WATER PRECAUTIONS

The quality of water varies greatly. Many areas have an excess of minerals in the water which results in what is commonly called "hard water." These minerals tend to adhere to the insides of heater coils and other parts of the machines causing damage and a loss of cleaning effectiveness. This influences the reliability and efficiency of equipment in direct proportion to the level of hardness.

Hard Water Advisory

HydraMaster recognizes that any hard water deposits which might occur within the water system of our truckmounts is a serious problem. The precision technology of truckmount heat exchanger systems is intolerant of any foreign material. Hard water deposits will ultimately decrease the performance of the system and are expected to seriously lower the reliability of the machine.

To validate a machine's warranty, HydraMaster requires that all machines operating in designated "Hard Water Areas" (3.0 grains or more per gallon) be fitted with a water softening system, or a properly installed magnetic-type descaler must be used and maintained. Periodic descaling or acid-rinsing alone is not adequate in these areas. HydraMaster does not recommend any particular type or brand; however, the relative effectiveness of some types of magnetic descalers or softeners may require additional periodic use of descaling agents.

HydraMaster also recommends, in the strongest possible terms, that machines in all areas be fitted with a water softening system for improved operation and reliability.

CAUTION

Failure to take appropriate measures to prevent scale build up can result in system failure and loss of warranty on affected parts.



Hard Water Area Map

The hard water map, shown in Figure 1, defines hard water areas in the lower 48 United States which compromise fluid related components such as hoses, fittings, heaters, pumps, valves and water-cooled engines. For other countries, hard water area maps can be obtained from geological societies.

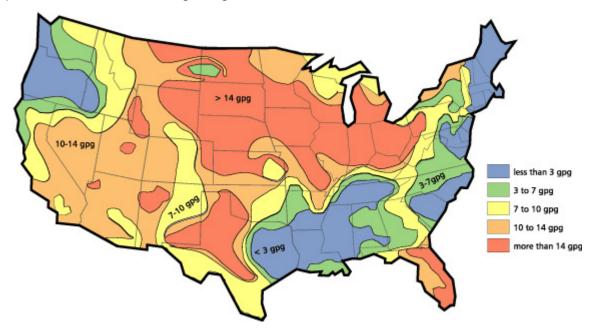


Figure 1. Hard Water Map of Mainland United States

NOTICE

The map shown in Figure 1 is provided for general reference only. Water hardness in your geographical location should be confirmed by testing.



Water Softener

Cleaning efficiency and equipment life is increased, chemical use decreased, and the appearance of cleaned carpets enhanced when water softeners are incorporated in hard water areas. HydraMaster strongly urges the use of water softener units with the CDS xDrive machines in areas exceeding 3.0 grains per gallon.

Failure to use a water softener in these areas will invalidate the machine's warranty. Referring to the hard water area map shown Figure 1, determine the quality of water in your area and take immediate action if the water hardness exceeds 3.0 grains per gallon.

The relatively low cost of a water softener service is more than made up for by an increased life of machine parts, reduced chemical costs and continued cleaning efficiency. The water softener will also increase the effectiveness of the cleaning chemicals, therefore less chemical will be needed.

Contact a water softener distributor in your area for information on the rental of a simple water treatment unit to carry in your truck. Be sure to change the water softener in accordance with the capability of the softener.

For example: If the softener will treat 900 gallons of water and the machine uses an average of 30 gallons per hour, for an average of 5 hours a day, this equals 150 gallons per day. In 6 days the machine would use 900 gallons of water. Therefore, the softener would need to be changed every 6 working days for maximum softening.



WASTE WATER DISPOSAL ADVISORY

There are laws in most communities prohibiting the dumping of recovered "gray" water from carpet cleaning in any place but a sanitary treatment system.

The cleaning rinse water, recovered into your unit's vacuum tank, contains materials such as detergents, and must be safely processed before entering streams, rivers and reservoirs.

In most cases, an acceptable method of waste water disposal is to discharge into a municipal sewage treatment system after first filtering out solid material such as carpet fiber. Access to the sanitary system can be obtained through a toilet, laundry drain, RV dump, etc. Permission should first be obtained from any concerned party or agency.

One disposal method which usually complies with the law is to accumulate the waste water and haul it to an appropriate dump site. Another solution to the disposal problem is to equip your CDS xDrive with an Automatic Pump-Out System (APO). These systems are designed to remove waste water from the extractor's recovery system and actively pump the water through hoses to a suitable disposal drain.

HydraMaster makes an APO System which can be ordered with new equipment or installed later.

When properly configured, the systems will continuously monitor the level of waste water and pump it out simultaneously with the cleaning operation. The hidden benefit of this process is that the technician does not have to stop his/her cleaning to empty the recovery tank.

NOTICE

IN ACCORDANCE WITH EPA, STATE AND LOCAL LAWS, DO NOT DISPOSE OF WASTE WATER INTO GUTTERS, STORM DRAINS, STREAMS, RESERVOIRS, ETC.

The penalties for non-compliance can be serious.

Always check local laws and regulations to be sure you are in compliance.

BATTERY RESET FOR FORD TRANSIT VAN

If the battery has been disconnected or a new battery has been installed, some system settings must be reset after the battery is reconnected.

Refer to the Ford Transit Owner's Manual for instructions for battery reset conditions.





3 - Operating Instructions

This section of the manual contains the following instructions:

- Before Operating the CDS xDrive
- CDS xDrive Start Up
- CDS xDrive Shut Down

BEFORE OPERATING THE CDS XDRIVE

1. Locate the van and equipment in a well-ventilated area.

AWARNING

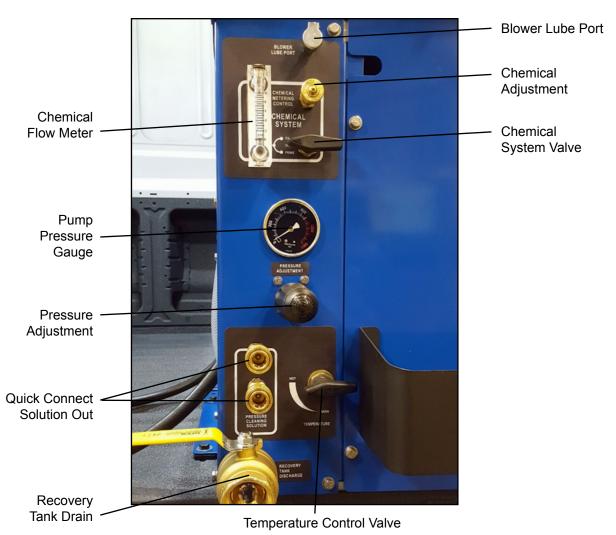
The vehicle in which the CDS xDrive operates generates toxic fumes. Position the vehicle so that the fumes will be directed away from the job site. Do not park where exhaust fumes can enter a building through open doors, windows, air conditioning units or kitchen fans.

- 2. Check the fuel tank to be certain there is adequate fuel to complete the job.
- 3. Position the wheel chocks on one of the front tires.
- 4. If using a water supply hose which has not been used recently or if using a customer's hose, first connect the hose to the faucet and flush out any debris which may be in the hose. Afterwards connect the hose to the unit.
- 5. Check the chemical jug to see if you have enough concentrated chemical to finish the job. If not, mix and fill a 2.5 gallon chemical jug.
- 6. Connect all required hoses.
- 7. When connecting the pressure hose to the pressure outlet connections at the front of the unit, go to the farthest area to be cleaned and connect to the cleaning tool. This ensures that you have the proper length of hose required to perform the cleaning.





CDS XDRIVE LOWER DASH





CDS xDRIVE START-UP

1. Make sure the vehicle's gear select lever is in the Park position and the parking brake is set. Also make sure all vehicle accessories are turned off (A/C, fan).

NOTICE

The CDS xDrive will not operate correctly without parking brake engaged.

- 2. Start the vehicle's engine.
- 3. Turn on the POWER switch.
- 4. Select the motor speed Economy, Mid, High, Boost (Allow the unit to acheive operating RPM).
- 5. Turn on the PUMP CLUTCH switch. Adjust cleaning pressure to desired level.

NOTICE

CDS xDrive Flood restoration work

When using equipment for flood damage, leave the pump clutch off. This will reduce the engine power load and save on fuel consumption.

- 6. Turn on the FRESH WATER switch (if fresh water tank is included).
- 7. Turn the heat control valve to adjust temperature to desired level.
- Turn the CHEMICAL SYSTEM valve to the 'PRIME' position to purge any air from the system.

NOTICE

The prime hose is plumbed into the recovery tank.

Leaving the valve in the 'PRIME' position will cause excessive chemical usage.

- a. When the chemical begins to flow through the flowmeter, with the flow indicator reading maximum flow and the PRIME line pulsing, turn the CHEMICAL SYSTEM valve to 'ON'. Cap off vacuum if necessary.
- While spraying the solution from the cleaning tool, adjust the chemical flow by turning the CHEMICAL METERING CONTROL knob to the desired level.



9. Optional: Turn the APO switch 'ON' if using the Automatic Pump-Out feature.

NOTICE

The APO pump will not engage until the water level rises inside the recovery tank.

10. Proceed with the cleaning operation.

NOTICE

The machine will automatically shut down when the recovery tank reaches its full capacity due to the float switch located inside the tank. When this occurs, turn the CDS xDrive POWER switch off and empty the recovery tank. Then, turn the unit back on and continue to clean.



CDS xDRIVE SHUT-DOWN

- 1. Flush clear water through the chemical system for 10 seconds.
- 2. Open the water box drain and actuate the tool/wand valve to run fresh water through the water box, heat exchangers and cleaning tools.

NOTICE

If freeze guarding is necessary, perform the freeze guard procedure at this time. Draining the water box to ½ full or less is recommended to reduce spillage inside the vehicle.

NOTICE

Rinse the system with vinegar on a weekly basis. Rinse the entire system with descaler each month.

- 3. Lay vacuum hoses out in order for all moisture to be removed from the hoses. This prevents spillage of any dirty solution in your vehicle when storing the hoses.
- 4. Disconnect the hoses and put them away.
- 5. If you are using an outside water source, turn the water supply faucet off. Bleed pressure out of the supply hose by loosening the hose at the water supply. Unhook the water supply hose and store it in the vehicle
- 6. Allow the unit to run for a few minutes with the vacuum hose disconnected in order to remove all moisture from the vacuum pump.
- 7. Plug the vacuum inlets. Spray a HydraMaster-recommended lubricant (P/N 000-087-006) into the lube port for about 5 to 7 seconds while the unit is running. This will lubricate the vacuum pump and prevent it from rusting. (The lube port is located on the front panel above the pressure gauge).
- 8. Remove the inlet plugs, turn off CDS xDrive power switch.
- 9. Drain the recovery tank.

NOTICE

If your CDS xDrive is equipped with an APO, first connect a garden hose to the outlet on the front of the machine. The CDS xDrive must be 'ON' for APO to operate.

If your CDS xDrive is equipped <u>without</u> an APO, drain the recovery tank through the recovery tank discharge valve.



NOTICE

Do not dump waste in any area which might violate local, state or federal law. If you have the optional APO system, drain the recovery tank into a sanitary drain system.

- After the recovery tank is drained, lift the recovery tank lid and remove the filter basket.
- 2. Clean out any accumulated debris.
- 3. Rinse and re-install.
- 4. Check the pleated blower filter.
- 5. Clean out any accumulated debris.
- Rinse and re-install.
- 7. Recommend leaving the tank lid open overnight for air circulation in the waste tank.

NOTICE

When re-installing the blower filter, ensure that it is fully seated against its mount so that debris cannot pass under it and into the blower.



THROTTLE CONTROL

The throttle control must meet certain conditions to elevate the engine rpm, which are:

SEIC ENABLE-DISABLE CONDITIONS					
Vehicle Conditions to Enable	Vehicle Conditions that Disable				
(all required)	(any one required)				
Parking brake applied	Parking brake disengaged				
Foot off of service brake	Depressing service brake				
Vehicle in PARK	Vehicle taken out of Park				
Foot off of accelerator pedal	Accelerator pedal depressed				
Vehicle speed is 0 mph	Vehicle speed is not 0 mph				
Brake lights functional	Brake light circuit disconnected				
Engine at a stable base idle speed					
Transmission oil Temp above 20° F	Transmission oil Temp exceeds 240° F				
Engine Coolant Temp 20° F minimum	Engine Coolant Temp above 234° F				
	Catalyst Temperature above limit				

NOTICE

SEIC (Stationary Elevated Idle Control)* will be terminated by a safety condition violation. For instance, the SEIC will be terminated if the service brake is depressed at any time during its operation.





Maintenance Logs

To avoid costly repairs and down-time, it is imperative to develop and practice good maintenance procedures from the beginning. These procedures fall into daily, weekly, monthly and quarterly increments, and are outlined in this section. All recommended maintenance must be performed by competent service personnel.

This section covers:

- Operational Maintenance
- Appearance Maintenance
- Long-Term Maintenance Schedule

NOTICE

Record the date and machine hours on the maintenance log provided for your convenience in the Owner's Guide. Records of maintenance must be kept and copies may be required to be furnished to HydraMaster before the warranty is honored. It is recommended that you affix a copy of the log on the vehicle door near your unit for convenience and to serve as a maintenance reminder.

OPERATIONAL MAINTENANCE

This section contains recommendations for maintenance that will affect the service life of your unit.

NOTICE

HydraMaster recommends that you follow the vehicle maintenance schedule as stated by the manufacturer. All HydraMaster references to vehicle maintenance serve as general vehicle service reminders. If there are any questions regarding servicing of your vehicle, please contact your local vehicle dealership.



Perform Descaling as Required

Scale deposits on the interior of the heating system can cause a noticeable loss in heating performance. Deposits of this kind result from hard water deposits, excessive chemical use or improper chemicals. The frequency with which descaling procedures are required will vary. If your area has particularly hard water or you see evidence of deposits in the water system, you may have to descale monthly.

To descale your system:

- 1. Add an appropriate descaler chemical to your water box.
- 2. Circulate it through the heating system. Let it stand.
- 3. Flush and repeat as necessary.
- 4. Clean all screens and strainers, and check them frequently following descaling.

NOTICE

If you are circulating a descaler through the flowmeter, make sure to run clean water through the flowmeter after you perform this procedure.

APPEARANCE MAINTENANCE

Maintaining the original appearance of your unit is important for two reasons:

- 1. It represents a big dollar investment for your cleaning business and its appearance should reflect that fact. A dirty machine does not look professional.
- Maintenance, troubleshooting and repair is much easier to accomplish on a clean, well-maintained unit. Regular cleaning of the machine offers you an opportunity to visually inspect all parts of the machine and spot potential problems before they occur.

The following maintenance is recommended by the manufacturer at the frequency indicated:

Daily

- Wipe machine down thoroughly with a damp cloth.
- Flush recovery tank out thoroughly.
- Clean wand to maintain original appearance.
- Wipe down vacuum and high pressure hoses as needed.
- Visually inspect hoses for cuts, etc.



<u>Weekly</u>

- Wipe down entire unit as needed.
- Apply good coat of auto wax to all painted surfaces inside and out.
- Thoroughly clean wand and inspect for clogged jet, debris in vacuum slot and leaking fittings at valve.
- Apply light coat of auto wax to wand. Thoroughly clean vacuum and high pressure hoses including hose cuffs.

LONG-TERM MAINTENANCE SCHEDULE

The following components or systems should be serviced or replaced at the specified intervals.

Component	Interval (Machine hours / months of service)
High pressure water pump rebuild	2,000 / 24
Vehicle engine thermostat (Replace with genuine Ford part)	2,000 / 24
Vehicle engine accessory drive belt	2,000 /24
CDS xDrive blower silencer and exhaust plumbing	4,000 / 48
CDS xDrive and vehicle heater hoses	4,000 / 48
CDS xDrive wire harness	4,000 / 48



MAINTENANCE LOGS

Weekly Maintenance Date Hour Meter Reading **Technician Initials** Vehicle/CDS xDrive - check for leaks Pump oil - check Belts and pulleys - check for wear High pressure lines-internal - check for chafing Recovery tank inlet filter - remove and clean Recovery tank - clean Chemical container - remove and clean Vac. relief valve - inspect, clean Engine rpm - check with CDS xDrive unit Float switches - clean and inspect Hoses and quick connects; check for wear; replace as needed ATTENTION: Additional break-in period maintenance required! One time change of pump oil after 50 hours of operation; every 300 hours thereafter. Blower oil - change after first 100 hours of use. **Monthly Maintenance** Flush chemical system with vinegar All fasteners; tighten as needed Engine air cleaner - inspect Battery terminals - clean as needed

Blower drive belt - check



Quarterly Maintenance (250 Hours, unless indicated otherwise)

Chemical pump valves and diaphragm - check			
Chemical pump - inspect			
Vehicle fuel lines - check for chaffing or wear			
CDS xDrive wiring harness - check for chafing or wear			
Bearings/power pack pillow block - grease		_	
Vehicle wiring harness - check for chafing or wear		0	
Pump oil - change (every 300 hours)			
Blower oil - change (every 400 - 500 miles)			
Every 50	0 Hours		
Salsa Heat Exchanger (if equipped) - clean and inspect			
Yearly Maintenance (or Every 1,00	0 Hours, Whichever C	omes First)	
Vehicle - complete service			
Cooling system - flush		0	
Transmission fluid - change		0	
Blower Drive Belt		0	



MAINTENANCE LOGS

Weekly Maintenance Date Hour Meter Reading **Technician Initials** Vehicle/CDS xDrive - check for leaks Pump oil - check Belts and pulleys - check for wear High pressure lines-internal - check for chafing Recovery tank inlet filter - remove and clean Recovery tank - clean Chemical container - remove and clean Vac. relief valve - inspect, clean Engine rpm - check with CDS xDrive unit Float switches - clean and inspect Hoses and quick connects; check for wear; replace as needed ATTENTION: Additional break-in period maintenance required! One time change of pump oil after 50 hours of operation; every 300 hours thereafter. Blower oil - change after first 100 hours of use. **Monthly Maintenance** Flush chemical system with vinegar All fasteners; tighten as needed Engine air cleaner - inspect Battery terminals - clean as needed

Blower drive belt - check



Quarterly Maintenance (250 Hours, unless indicated otherwise)

Chemical pump valves and diaphragm - check			
Chemical pump - inspect		0	
Vehicle fuel lines - check for chaffing or wear		0	
CDS xDrive wiring harness - check for chafing or wear		0	
Bearings/power pack pillow block - grease			
Vehicle wiring harness - check for chafing or wear		0	
Pump oil - change (every 300 hours)			
Blower oil - change (every 400 - 500 miles)			
Every 500) Hours		
Salsa Heat Exchanger (if equipped) - clean and inspect			
Yearly Maintenance (or Every 1,000) Hours, Whichever C	omes First)	
Vehicle - complete service			
Cooling system - flush			
Transmission fluid - change			
Blower Drive Belt			



MAINTENANCE LOGS

Weekly Maintenance Date Hour Meter Reading **Technician Initials** Vehicle/CDS xDrive - check for leaks Pump oil - check Belts and pulleys - check for wear High pressure lines-internal - check for chafing Recovery tank inlet filter - remove and clean Recovery tank - clean Chemical container - remove and clean Vac. relief valve - inspect, clean Engine rpm - check with CDS xDrive unit Float switches - clean and inspect Hoses and quick connects; check for wear; replace as needed ATTENTION: Additional break-in period maintenance required! One time change of pump oil after 50 hours of operation; every 300 hours thereafter. Blower oil - change after first 100 hours of use. **Monthly Maintenance** Flush chemical system with vinegar All fasteners; tighten as needed Engine air cleaner - inspect Battery terminals - clean as needed

Blower drive belt - check



Quarterly Maintenance (250 Hours, unless indicated otherwise)

Chemical pump valves and diaphragm - check			
Chemical pump - inspect			
Vehicle fuel lines - check for chaffing or wear		0	
CDS xDrive wiring harness - check for chafing or wear		0	
Bearings/power pack pillow block - grease			
Vehicle wiring harness - check for chafing or wear		0	
Pump oil - change (every 300 hours)			
Blower oil - change (every 400 - 500 miles)			
Every 500 Hours			
Salsa Heat Exchanger (if equipped) - clean and inspect			
Yearly Maintenance (or Every 1,000 Hours, Whichever	Comes First)		
Vehicle - complete service			
Cooling system - flush	0		
Transmission fluid - change			
Blower Drive Belt			_



MAINTENANCE LOGS

Weekly Maintenance Date Hour Meter Reading **Technician Initials** Vehicle/CDS xDrive - check for leaks Pump oil - check Belts and pulleys - check for wear High pressure lines-internal - check for chafing Recovery tank inlet filter - remove and clean Recovery tank - clean Chemical container - remove and clean Vac. relief valve - inspect, clean Engine rpm - check with CDS xDrive unit Float switches - clean and inspect Hoses and quick connects; check for wear; replace as needed ATTENTION: Additional break-in period maintenance required! One time change of pump oil after 50 hours of operation; every 300 hours thereafter. Blower oil - change after first 100 hours of use. **Monthly Maintenance** Flush chemical system with vinegar All fasteners; tighten as needed Engine air cleaner - inspect Battery terminals - clean as needed

Blower drive belt - check



Quarterly Maintenance (250 Hours, unless indicated otherwise)

Chemical pump valves and diaphragm - check			
Chemical pump - inspect			
Vehicle fuel lines - check for chaffing or wear			
CDS xDrive wiring harness - check for chafing or wear			
Bearings/power pack pillow block - grease		_	
Vehicle wiring harness - check for chafing or wear		0	
Pump oil - change (every 300 hours)			
Blower oil - change (every 400 - 500 miles)			
Every 50	0 Hours		
Salsa Heat Exchanger (if equipped) - clean and inspect			
Yearly Maintenance (or Every 1,00	0 Hours, Whichever C	omes First)	
Vehicle - complete service			
Cooling system - flush		0	
Transmission fluid - change		0	
Blower Drive Belt		0	



MAINTENANCE LOGS

Weekly Maintenance

Date								
Hour Meter Reading								
Technician Initials								
Vehicle/CDS xDrive - check for leaks	_	_		_		_	_	
Pump oil - check								
Belts and pulleys - check for wear								
High pressure lines-internal - check for chafing	_							
Recovery tank inlet filter - remove and clean								
Recovery tank - clean	0	0						
Chemical container - remove and clean	0	0						
Vac. relief valve - inspect, clean								
Engine rpm - check with CDS xDrive unit operating								
Float switches - clean and inspect	_	_			_			
Hoses and quick connects; check for wear; replace as needed	_	_			_		_	_
ATTENTION: Additiona	ıl break-iı	n period	mainten	ance req	uired!			
One time change of pump oil after 50 hours of operation; every 300 hours thereafter.		0						
Blower oil - change after first 100 hours of use.				_				
Мо	onthly Ma	intenand	се					
Flush chemical system with vinegar								
All fasteners; tighten as needed		_		_				_
Engine air cleaner - inspect								
Battery terminals - clean as needed				_				
Blower drive belt - check								



Quarterly Maintenance (250 Hours, unless indicated otherwise)

Chemical pump valves and diaphragm - check			
Chemical pump - inspect		0	
Vehicle fuel lines - check for chaffing or wear		0	
CDS xDrive wiring harness - check for chafing or wear		0	
Bearings/power pack pillow block - grease			
Vehicle wiring harness - check for chafing or wear		0	
Pump oil - change (every 300 hours)			
Blower oil - change (every 400 - 500 miles)			
Every 500) Hours		
Salsa Heat Exchanger (if equipped) - clean and inspect			
Yearly Maintenance (or Every 1,000) Hours, Whichever C	omes First)	
Vehicle - complete service			
Cooling system - flush			
Transmission fluid - change			
Blower Drive Belt			



MAINTENANCE LOGS

Weekly Maintenance Date Hour Meter Reading **Technician Initials** Vehicle/CDS xDrive - check for leaks Pump oil - check Belts and pulleys - check for wear High pressure lines-internal - check for chafing Recovery tank inlet filter - remove and clean Recovery tank - clean Chemical container - remove and clean Vac. relief valve - inspect, clean Engine rpm - check with CDS xDrive unit Float switches - clean and inspect Hoses and quick connects; check for wear; replace as needed ATTENTION: Additional break-in period maintenance required! One time change of pump oil after 50 hours of operation; every 300 hours thereafter. Blower oil - change after first 100 hours of use. **Monthly Maintenance** Flush chemical system with vinegar

All fasteners; tighten as needed

Battery terminals - clean as needed

Engine air cleaner - inspect

Blower drive belt - check



Quarterly Maintenance (250 Hours, unless indicated otherwise)

Chemical pump valves and diaphragm - check				
Chemical pump - inspect				
Vehicle fuel lines - check for chaffing or wear				
CDS xDrive wiring harness - check for chafing or wear				
Bearings/power pack pillow block - grease				
Vehicle wiring harness - check for chafing or wear		0		
Pump oil - change (every 300 hours)				
Blower oil - change (every 400 - 500 miles)				
Every 500	Hours			
Salsa Heat Exchanger (if equipped) - clean and inspect				
Yearly Maintenance (or Every 1,000	Hours, Whichever Co	omes First)		
Vehicle - complete service				
Cooling system - flush		0		
Transmission fluid - change		0		
Blower Drive Belt			_	



MAINTENANCE CHART - 8 TO 600 HOURS

					DA	LY N	AINT	ENA	NCE	CDS	xDriv	e - F	ORD	TRAI	NSIT										
Check engine oil level																									
Check blower oil level																									
Check pump oil level																									
Empty recovery tank inlet filter																									
Inspect and clean orifice and filters																									
							Inspe	ct and	d clea	ın gar	den h	ose s	scree	n											
				Vis	ually i	nspe	ct ma	chine	for lo	ose v	vires,	oil lea	aks, v	vater	leaks	, etc									
	Insp	ect re	cover	y tan	k staiı	nless	steel	filter	for clo	oggin	g or d	amag	ge; cle	ean, r	epair	or re	olace	as ne	eded						
Inspect recovery tank stainless steel filter for clogging or damage; clean, repair or replace as needed Inspect and clean the vacuum slot on the cleaning wand. Watch for sharp edges that may tear the carpet; remove any sharp edges as required																									
Lubricate blower lube port with a HydraMaster-recommended spray lubricant (P/N 000-087-006)																									
					INT	ERV	AL IN	HOL	JRS (CDS 2	Driv	e - FC	ORD '	TRAN	ISIT										
Engine oil and filter						Cl	nange	oil a	nd filte								cheve	er con	nes fi	rst					
Pump oil * Blower oil **							- 11	00 Ac	on D					0 hou			20110	of us							
SERVICE	8	25	50	75	100	125	150	175				275		325	350			425		475	500	525	550	575	600
Float switches		C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I
Check around vehicle and																									
CDS xDrive for evidence of oil/fluid leaks			СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	CH	CH	СН	СН	СН	СН	СН	CH	CH	СН	СН
All belts and pulleys (check for				-			-011	011	-011	-	-				-						-			-	
wear)		L	СН	СН	СН	СН	СН	СН	СН	CH	CH	CH	СН	CH	CH	CH	СН	СН	CH	CH	СН	CH	CH	СН	СН
High pressure lines - internal			СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН
(check for chafing) Recovery tank (clean																									
thoroughly with high pressure			C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I
washer)																									
Chemical container - remove and clean			C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I
Blower inlet filter inside																									
recovery tank			C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I
Vehicle engine rpm on CDS			СН	СН	СН	CH	СН	СН	СН	СН	СН	СН	CH	CH	CH	CH	CH	СН	CH	СН	CH	CH	CH	CH	CH
Hoses and quick connects; check for wear; replace as			СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН
needed			CII	CIT	CIT	CIT	CIT	CII	CIT	CIT	CIT	CIT	CII	CII	CIT	CIT	CII	CIT	CII	CII	CII	CII	CIT	CIT	CIT
* Pump oil, GP series 100			R	СН	СН	СН	СН	СН	СН	СН	СН	СН	R	СН	CH	СН	CH	СН	СН	СН	CH	CH	СН	СН	R
Vacuum Relief Valve -		C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I
inspect, clean SERVICE	8	25	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500	525	550	575	600
Flush chemical system with		25		75	F	120	F	175		220	250	210		323	F	3/3		723	F	4/5	F	323	F	5/5	
vinegar			F		F		F		F		-		F		-		F		F		_		F		F
All fasteners; tighten as needed ***			СН		СН		СН		СН		СН		СН		СН		СН		СН		СН		СН		СН
Engine air cleaner filter					C/I				C/I				C/I				C/I				C/I				C/I
Battery connections					C/I				C/I				C/I				C/I				C/I				C/I
Blower drive belt (P/N 000-					СН				СН				СН				СН				СН				СН
010-009) Chemical pump valves and																	L								Ë
diaphragm											СН										СН				
Chemical pump											СН										СН				
Vehicle fuel lines (chafing or											СН										СН				
wear) All wiring harnesses (chafing																									
or wear)											СН						1		1		СН				
** Blower oil					R												R								
SERVICE	8	25	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500	525	550	575	600
Blower Heat Exchanger Check all phase cable																					C/I				
connections and phase cable																	1		1		СН				
for damage or overheating															L		L		L	L	L				
									Perf	orm o	comp	ete v	ehicle	mair	ntena	nce y	early								
Van's cooling system; add new anti-freeze																	l								
Van's transmission fluid																									
· a o a anomioolom naid																									

- * Refers to pump oil
 ** Refers to blower oil
- *** Check blower, front end fasteners

Adjust	Α
Check	CH
Clean and Inspect	C/I
Clean and Lubricate	C/L
Flush	F
Lubricate	L
Replace	R

CAUTION

References to van maintenance in this section in no way relieve customer of responsibility to follow all Ford maintenance procedures.



MAINTENANCE CHART - 675 TO 1200 HOURS

Check toget of level					D	AILY	MAII	NTEN	ANC	E CD	S xDi	rive -	FOR	D TR	ANSIT								
Check pump oil level	DAILY MAINTENANCE CDS xDrive - FORD TRANSIT Check engine oil level																						
Empty recovery tank itself filter Inspect and clean orifice and filters Inspect and clean parden hose screen Inspect and clean the vacuum slot on the cleaning wand. Watch for sharp edges, elsc. Inspect and clean the vacuum slot on the cleaning wand. Watch for sharp edges that may hear the carper, remove any sharp edges as required Inspect and clean the vacuum slot on the cleaning wand. Watch for sharp edges that may hear the carper, remove any sharp edges as required Inspect and clean the vacuum slot on the cleaning wand. Watch for sharp edges that may hear the carper, remove any sharp edges as required Inspect and filter	·																						
Inspect and clean ordina and filters Visually inspect machine for loose wires, oil leasts, water leaks, etc Inspect and clean parden house screen Visually inspect machine for loose wires, oil leasts, water leaks, etc Inspect and clean the vacuum sit on the cleaning wand. Watch for observing and the late of																							
Inspect and clean garden hose screen																							
Visually inspect machine for loose wires, oil leaks, water leaks, etc Inspect recovery tank stainless sited filter for logging or damage, clean, repair or replace as needed Inspect and clean the vacuum slot on the cleaning wand. Watch for sharp edges that may lear the carpite, remove any sharp edges as required Lubricate blower lube port with a HydraMassler-recommended spray fubricant (PN) 000-087-006; Visually inspect and filter Visually inspect Visual							lr	spec	t and	clean	orific	e and	d filter	s									
Inspect and clean the vacuum sido on the cleaning wand. Watch for sharp edges that may lear the carpet; remove any sharp edges as required *** **Lubricate blower Liber poor with a Hydradiser-recommended spray lubricant (PN 000-037-06)** **INTERVAL IN HOURS COS SOTIVE - FORD TRANSIT** Engine oil and filter ** **Change oil and filter ** **Change oil and filter ** **Use Ason PD synthetic oil; change after first 100 hours of use. **SERVICE** **Too 725 750 725 750 775 800 825 850 876 900 925 850 876 1000 1025 1050 1125 1150 1175 1200 **SERVICE** **Too 1 725 750 725 750 775 800 825 850 876 900 925 850 976 1000 1025 1050 1075 1100 1125 1150 1175 1200 **SERVICE** **Too 1 725 750 725 750 775 800 825 850 876 900 925 850 976 1000 1025 1050 1075 1100 1125 1150 1175 1200 **SERVICE** **Too 1 725 750 725 750 775 750 825 850 876 900 925 850 976 1000 1025 1050 1075 1100 1125 1150 1175 1200 **SERVICE** **Too 2 750 75							Ins	pect a	and cl	ean q	arder	n hose	e scre	en									
Inspect and clean the vacuum sido on the cleaning wand. Watch for sharp edges that may lear the carpet; remove any sharp edges as required Lubricate blower Lube port with a Hydradise1-recommended spray lubricant (PN 000-037-018-018-018-018-018-018-018-018-018-018				\	/isuall	v inst	pect n	nachi	ne for	loose	e wire	s. oil	leaks	. wate	er leak	s. etc							
Inspect and clean the vacuum slot on the cleaning wand. Watch for sharp edges that may tear the carpet, remove any sharp edges as required Lubricate blower lube port with a HydraMaster-recommended spray lubricant (PN 000-087-006) ***TERVAL, IN HOURS CSD S. White- PFOR TRANSH. Witchever comes first Change cil and filter	Inc																						
Lubricate blower lube port with a HydraMaster-recommended spray lubricant (PN 000-087-006) INTERVAL IN HOURS CDS XDrive - FORD TRANSIT																							
NTERVAL IN HOURS COS 30 Prov FORD TRANSITE Fragme of all affilier very 200 miles or 3 months, whichever comes first Change affect first 30 hours of use Steward Ste																							
Engine oil and filter Purpy 0il " Pumpy 0il "		Lubii	cate t	JIOVVC												t (1 /1 4	000-00	37-000	,				
Silower Silo	Engine oil and filter				•											hs, whi	cheve	r come	es first				
SERVICE 678 780 728 785 707 728 785 775 800 828 880 875 900 925 980 975 1000 1028 1050 1075 1100 1125 1150 1175 1200 11761 200 10161 101	Pump oil *																						
Float switches	Blower oil **			I ====				_										_					1222
Check around vehicle and CDS Arbive for evidence of CDS Arbive for evidence of collifluid leaks All Delts and pulleys (check for overlain the pressure lines - internal (check for chaffing) Recovery tank (clean throughly with high pressure washer) Recovery tank (clean throughly with high pressure washer) Coll Coll Coll Coll Coll Coll Coll Col								_	_										_				
CDS x0rive for evidence of childred leaks and pulleys (check for wear) (check for chelling) (check for wear) (check for chelling) (check for wear; replace as needed (check for chelling) (check for wear; replace as check for wear; replace as needed (check for wear; replace as needed		C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I
All belts and pulleys (check for wear) High pressure lines - internal (check for chaffing) Recovery tank (clear more) Recovery tank (clear more) Cri. Cri. Cri. Cri. Cri. Cri. Cri. Cri.	CDS xDrive for evidence of	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН
wear)	oil/fluid leaks																						
High pressure lines - internal CH CH CH CH CH CH CH C		СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН
(check for chafing) Chi																							
thoroughly with high pressure Cri Cri	(check for chafing)	CH	CH	CH	CH	CH	CH	CH	CH	CH	CH	CH	CH	CH	CH	CH	CH	CH	CH	CH	CH	CH	CH
washer) Cnemical container - remove and clean Cn C	Recovery tank (clean			l											l				l				
Chemical container - remove and clean and clea		C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I
and clean Cil. Cil. Cil. Cil. Cil. Cil. Cil. Cil.	/																						
recovery tank Vehicle engine rpm on CDS CH CH CH CH CH CH CH CH CH C	and clean	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I
Vehicle engine rpm on CDS	Blower inlet filter inside	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I
Hoses and quick connects; check for wear; replace as needed	recovery tank																						
Check for wear; replace as checked CH CH CH CH CH CH CH C		CH	CH	CH	CH	CH	CH	CH	CH	СН	СН	CH	СН	CH	CH	CH	CH	CH	CH	CH	CH	CH	CH
*Pump oil, GP series 100	check for wear; replace as	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН	СН
Vacuum Relief Valve - inspect, clean C/I	needed																						
Clean Cl Cl Cl Cl Cl Cl Cl C		СН	CH	CH	СН	СН	СН	СН	СН	СН	R	СН	СН	СН	CH	CH	CH	CH	CH	CH	CH	CH	R
SERVICE		C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I	C/I
Vinegar F </td <td>SERVICE</td> <td>675</td> <td>700</td> <td>725</td> <td>750</td> <td>775</td> <td>800</td> <td>825</td> <td>850</td> <td>875</td> <td>900</td> <td>925</td> <td>950</td> <td>975</td> <td>1000</td> <td>1025</td> <td>1050</td> <td>1075</td> <td>1100</td> <td>1125</td> <td>1150</td> <td>1175</td> <td>1200</td>	SERVICE	675	700	725	750	775	800	825	850	875	900	925	950	975	1000	1025	1050	1075	1100	1125	1150	1175	1200
Vinegar CH CH <t< td=""><td>Flush chemical system with</td><td></td><td>F</td><td></td><td>F</td><td></td><td>F</td><td></td><td>F</td><td></td><td>F</td><td></td><td>F</td><td></td><td>F</td><td></td><td>F</td><td></td><td>F</td><td></td><td>F</td><td></td><td>F</td></t<>	Flush chemical system with		F		F		F		F		F		F		F		F		F		F		F
CH			Ľ		·				Ŀ		·								·		L.		
Engine air cleaner filter			СН		СН		СН		СН		СН		СН		CH		СН		CH		СН		CH
Chapter Chap	Engine air cleaner filter		C/I				C/I				C/I				C/I				C/I				C/I
CH	Battery connections		C/I				C/I				C/I				C/I				C/I				C/I
Chemical pump valves and diaphragm	Blower drive belt (P/N 000-010-		СН				СН		1		СН				R				СН				СН
CH																							
CH CH CH CH CH CH CH CH	diaphragm				СН										СН								
CH	Chemical pump				СН										СН								
CH CH CH CH CH CH CH CH	Vehicle fuel lines (chafing or				СН										СН								
or wear) ** Blower oil SERVICE 675 700 725 750 775 800 825 850 875 900 925 950 975 1000 1025 1050 1075 1100 1125 1150 1175 1200 Blower Heat Exchanger Check all phase cable connections and phase cable for damage or overheating Perform complete vehicle maintenance yearly																							
** Blower oil R SERVICE 675 700 725 750 775 800 825 850 875 900 925 950 975 1000 1025 1050 1075 1100 1125 1150 1175 1200 Blower Heat Exchanger Check all phase cable connections and phase cable for damage or overheating Perform complete vehicle maintenance yearly	or wear)				СН				1						СН								
Blower Heat Exchanger Check all phase cable connections and phase cable for damage or overheating Perform complete vehicle maintenance yearly	** Blower oil																						
Check all phase cable connections and phase cable for damage or overheating Perform complete vehicle maintenance yearly	SERVICE	675	700	725	750	775	800	825	850	875	900	925	950	975	_	1025	1050	1075	1100	1125	1150	1175	1200
connections and phase cable for damage or overheating Perform complete vehicle maintenance yearly															C/I								
for damage or overheating Perform complete vehicle maintenance yearly	connections and phase cable								1						СН								
	for damage or overheating						Ļ	L	Ļ							<u> </u>		<u> </u>	L		<u> </u>		
	Vente engling overteres and the					Р	erforr	n con	nplete	vehi	cle m	ainter	nance	year	ly								
	Van's cooling system; add new anti-freeze								1											F			
	Van's transmission fluid																			R			

- * Refers to pump oil
- ** Refers to blower oil
- *** Check blower, front end fasteners

Adjust	Α
Check	CH
Clean and Inspect	C/I
Clean and Lubricate	C/L
Flush	F
Lubricate	L
Replace	R

CAUTION

References to van maintenance in this section in no way relieve customer of responsibility to follow all Ford maintenance procedures.